LISTING OF CLAIMS:

Claims 1 and 2 (Cancelled)

Claim 3 (Currently Amended): A surface-modified, pyrogenically produced oxides doped by aerosol, characterized in that the oxides are selected from the group consisting of SiO₂, Al₂O₃, TiO₂, B₂O₃, ZrO₂, In₂O₃, ZnO, Fe₂O₃, Nb₂O₅, V₂O₅, WO₃, SnO₂ and GeO₂, wherein the surface is modified to impart to the surface a sufficient hydrophobic character which permits rapid dissolution in organic systems at high concentrations with one or several compounds selected from the following groups:

a) Organosilanes having either formula $(RO)_3Si(C_nH_{2n+1})$ or $(RO)_3Si(C_nH_{2n-1})$, wherein

R = alkyl, and

n = 1 - 20;

b) Organosilanes having either formula R' $_x$ (RO) $_y$ Si(C $_n$ H $_{2n+1}$) or (RO) $_3$ Si(C $_n$ H $_{2n+1}$), wherein

R = alkyl,

R' = alkyl,

R' = cycloalkyl

n = 1 - 20,

x+y = 3,

x = 1, or 2, and

$$y = 1$$
, or 2;

c) Halogen organosilanes having either formula X_3 Si(C_nH_{2n+1}) or X_3 Si(C_nH_{2n-1}), wherein

$$X = Cl$$
, or Br, and

$$n = 1 - 20$$
;

d) Halogen organosilanes having either formula X_2 (R') $Si(C_nH_{2n+1})$ or

$$X_2(R') Si(C_nH_{2n-1})$$
, wherein

$$X = Cl$$
, or Br

R' = alkyl and or cycloalkyl, and

$$n = 1 - 20;$$

e) Halogen organosilanes having formula $X(R')_2 Si(C_nH_{2n+1})$ or

$$X(R')_2 Si(C_nH_{2n-1})$$
, wherein

$$X = Cl$$
, or Br ;

R' = alkyl or and cycloalkyl, and

$$n = 1 - 20$$
;

f) Organosilanes having the formula (RO)₃Si(CH₂)_m-R'

$$R = alkyl,$$

$$m = 0$$
, or 1-20, and

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-OOC (CH<sub>3</sub>)C = CH<sub>2</sub>,

-OCH<sub>2</sub>-CH(O) CH<sub>2</sub>,

-NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>,

-NH-COO-CH<sub>3</sub>, -NH-COO-CH<sub>2</sub>-CH<sub>3</sub>, -NH-(CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>,

or -SH, or

-NR'R''R''', wherein R' = alkyl<sub>5</sub> or aryl; R'' = H,

alkyl, or aryl; and R''' = H, alkyl, aryl, benzyl, or

C<sub>2</sub>H<sub>4</sub>N(R'''')<sub>2</sub>, wherein R'''' = H, or alkyl;
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h) Halogen organosilanes having the formula X₃Si (CH₂)_m-R', wherein

$$X = Cl$$
, or Br ,

$$m = 0, 1 - 20,$$

R' = methyl-, aryl, $-C_6H_5$, substituted phenyl groups

$$-C_4F_9$$
, $-OCF_2$ -CHF-CF₃, $-C_6F_{13}$, $-O$ -CF₂-CHF₂,

$$-N-(CH_2-CH_2-NH_2)_2$$
,

$$-OOC (CH_3)C = CH_2$$
,

-NH-COO-CH₃, -NH-COO-CH₂-CH₃, -NH-(CH₂)₃Si(OR)₃, or

-SH;

i) Halogen organosilanes having the formula (R)X₂Si(CH₂)_m-R', wherein

$$X = Cl$$
, or Br ,

R = alkyl such as methyl-, ethyl-, or propyl-,

$$m = 0$$
, or $1 - 20$, and

R' = methyl-, aryl-, $-C_6H_5$, substituted phenyl groups,

$$-C_4F_9$$
, $-OCF_2$ -CHF-CF₃, $-C_6F_{13}$, $-O$ -CF₂-CHF₂,

$$-N-(CH_2-CH_2-NH_2)_2$$
,

$$-OOC (CH_3)C = CH_2,$$

$$-NH-(CH2)3Si(OR)3, or$$

-SH;

(j) Halogen organosilanes having the formula (R)₂X Si(CH₂)_m-R', wherein

$$X = Cl$$
, or Br,

$$R = alkyl,$$

$$m = 0$$
, or $1 - 20$, and

R' = methyl-, aryl-, $-C_6H_5$, substituted phenyl groups,

$$-C_4F_9$$
, $-OCF_2$ -CHF-CF₃, $-C_6F_{13}$, $-O$ -CF₂-CHF₂,

 $-N-(CH_2-CH_2-NH_2)_2$,

-OOC (CH_3) $C = CH_2$,

-OCH₂-CH(O) CH₂,

-NH-CO-N-CO-(CH₂)₅,

-NH-COO-CH₃, -NH-COO-CH₂-CH₃, -NH-(CH₂)₃Si(OR)₃, or

-SH;

(k) Silazanes having the formula

$$R'R_2Si-N-SiR_2R'$$
 H

wherein R = alkyl, and

R' = alkyl, or vinyl; or

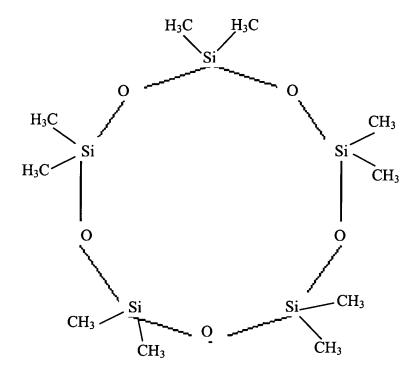
(l) Cyclic polysiloxanes D 3, D 4 or D 5,

where 1) D3 has the formula:

2) D4 has the formula:

$$CH_3$$
 CH_3
 H_3C O CH_3
 H_3C O CH_3
 CH_3 CH_3

and 3) D5 has the formula:



m) Polysiloxanes or silicone oils having any one of the formula

, Si(CH₃)₂OH, Si(CH₃)₂ (OCH₃), or

 $Si(CH_3)_2$ (C_nH_{2n+1}), wherein n=1-20,

wherein,

R = alkyl, aryl, (CH₂)_n-NH₂, or H,

R' = alkyl, aryl, $(CH_2)_n$ -NH₂, or H,

R'' = alkyl, aryl, $(CH_2)_n$ -NH₂, or H,

R'''= alkyl, aryl, $(CH_2)_n$ -NH₂, or H.

Claim 4 (Previously presented): A method of producing the surface-modified oxides in accordance with claim 3, comprising placing pyrogenically produced oxides doped by aerosol in a suitable mixing container, spraying the oxides under intensive mixing with the surface-modification reagent or a mixture of several surface-modification reagents.

Claim 5 (Previously presented): In a reinforcing filler composition wherein the improvement comprises the surface-modified oxides according to claim 3 as reinforcing filler.

Claim 6 (Original) The method of claim 4 wherein the spraying step includes spraying with water and/or acid prior to the spraying with the surface-modification reagent or a mixture of several surface-modification reagents.

Claim 7 (Original) The method of claim 4 further comprising re-mixing at 15 to 30 minutes and tempering at a temperature of 100 to 400 °C for a period of 1 to 6 hours.

Claim 8 (Previously presented) The surface-modified, pyrogenically produced oxides according to claim 3 wherein the cyclic polysiloxanes is D 4.

Claim 9 (Cancelled)